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served to isolate plasmids containing *Salmonella* promoters that were turned on specifically by phagocytosis. By infecting mice with such bacterial clones, they could show easily that the spleens and livers of the mice contained bacteria in the form of fluorescent rods. Sequence analysis of the natural *Salmonella* genes downstream of the GFP-tagged promoters revealed that several clones were already known to be involved in *Salmonella* virulence. In addition, several new genetic loci were also linked in this organism to the virulence process.

Clearly, the powerful sorting made possible by alternate positive/negative selection with GFP can be extended further in both bacterial and eukaryotic systems. It may be possible, for instance, to use GFP as a marker in mammalian cells in cultures to sort high-complexity plasmid libraries after transfection. Given an *in vitro* selection scheme, regulated eukaryotic promoters could be identified much like the *Salmonella* promoters. In addition, the use of GFP protein fusion libraries may provide a visual means to identify novel components in subcellular structures, as has been done previously with fusion proteins in yeast.

—Robert Sikorski and Richard Peters

Reference

1. R. H. Valdivia and S. Falkow, *Science* **277**, 2007 (1997).

Digital Mailbox:

www.sciencemag.org/dmail.cgi?53422b

Internet Photoshopping

The presentation of scientific data these days requires the use of ever more sophisticated

NET TIPS

graphics tools for Web site design and photo editing. The workhorse program in most labs is usually Adobe's Photoshop. Computer images can be cut, pasted, layered, and beautified in endless ways with just the standard Photoshop set of tools. However, the program itself can be easily tailored to adopt new functionalities in the form of plug-ins or filters. These small software modules will give the user the power to create breathtaking visual effects. Moreover, many of these modules are free on the Internet. Here is a sampling of Web sites to help with your graphic needs.

Photoshop Web Reference

www.adscape.com/eyedesign/photoshop/

This site is extremely well designed and can

serve as the starting point for anyone new to Photoshop. It gives key background for using the basic tools, palettes, and filters.

Macworld Top 20

www.macworld.com/pages/september.96/Feature.2587.html

This article covers their list of 20 best Photoshop plug-ins. The detailed descriptions of each will give you an idea of what these tools can do for your images.

Ultimate Photoshop

www.sas.upenn.edu/~pitharat/photoshop/filters/plugins.free.html

As the name implies, this may be one of the most comprehensive collections of Photoshop add-ons on the Net today. If you are interested in free filters and plug-ins, you'll find them here.

—Robert Sikorski and Richard Peters

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Cookie Monster?

Cookies are small data structures sent from a Web server to your browser and saved on your hard drive in a text file. They are nothing more than a string of characters (letters

BIOLOGICALS AVAILABLE FROM THE NATIONAL CANCER INSTITUTE

The repository of the Biological Resources Branch, NCI, announces the availability of recombinant human cytokines and monoclonal antibodies against mouse and human antigens.

HUMAN CYTOKINES CURRENTLY AVAILABLE:

IL-1 α IL-1 β IL-2

The cytokines are aliquoted in 100 μ g amounts ($>10^6$ units) and are available to investigators with peer-reviewed support only (manufacturers' restrictions prohibit distribution of these materials to for-profit institutions or commercial establishments).



HeFi-1: Murine Anti-Human CD30 Monoclonal Antibody
B72.3: Murine Anti-Human TAG-72 Monoclonal Antibody
R24: Murine Anti-GD3 Monoclonal Antibody

OTHER MONOCLONAL ANTIBODIES CURRENTLY AVAILABLE:

3ZD: Murine anti-human IL-1 β
11B.11: Rat anti-mouse IL-4

The monoclonal antibodies are available to peer-reviewed investigators, for-profit institutions or commercial establishments. The 3ZD and the 11B.11 antibodies are available in either 5 or 20 mg vials. The B72.3, HeFi-1 and R24 antibodies are available only in 5 mg amounts.

Use of these materials is limited solely to *in vivo* and *in vitro* basic research studies and is **not** intended for administration to humans.

Investigators wishing to obtain any of these materials should send requests to:

Dr. Craig W. Reynolds
Biological Resources Branch
NCI-FCRDC
Building 1052, Room 253
Frederick, MD 21702-1201
FAX: 301-846-5429
e-mail: reynoldsc@mail.ncifcrf.gov
<http://www.ncifcrf.gov/FCRDC/BRB/>

All requests should be accompanied by:

(1) A brief paragraph outlining the purpose for which materials are to be used, (2) the amount desired, (3) description of investigator's peer-reviewed support. Recipients will be required to sign a Materials Transfer Agreement and to pay shipping and handling costs. Please allow 4 to 6 weeks for delivery.

NATIONAL CANCER INSTITUTE-FREDERICK CANCER RESEARCH & DEVELOPMENT CENTER